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ST. ASAPH RURAL DISTRICT COUNCIL

ANNUAL REPORTS

FOR

1937

OF THE

Medical Officer of Health

HENRY LLOYD

M.D., M.R.C.S., L.S.A., D.P.H., J.P.

AND THE

Sanitary Inspector

EDWARD O. EVANS

F.S.I.A., Cert. R.S.I.

"Sanitas Sanitatum Omnia Sanitas."

JOURNAL OFFICE, RHYL.

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ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1937.

To the Chairman and Members of the Council.

Gentlemen,

I have the honour to present to you my twenty-fourth Annual Report on the health and sanitary condition of the district, its administration and vital statistics, together with many other matters, such as social conditions and general information relating to the area, housing activities and developing schemes under the Housing Acts, water supplies, sewerage, the incidence of infectious disease, and such other information as is required by the Ministry of Health.

GENERAL STATISTICS.

Area, 23,057 acres (land and inland water).

Population at Census of		1901	6,158
Ditto.	ditto.	1911	6,766
Ditto.	ditto.	1921	7,362
Ditto.	ditto.	1931	7,873

The Registrar General's estimate of the resident population for the mid-year 1937 is 7,316—61 more than in 1936.

Number of inhabited houses for 1937, according to the rate books, to Dec. 31st, 1937, is 2,182.

Rateable value, £35,530.

Estimated product of a penny rate, £146.

SOCIAL CONDITIONS AND OCCUPATIONS.

As previously stated in every Annual Report, the district is rural and agricultural, and its chief pursuit is farming. That is at a low ebb just now as far as corn growing is concerned. Wheat, barley and oats are neglected, and very little is grown. No teams are required on the farms, so that no farm labourers are required. Farmers have converted the land for grazing, so as to keep cattle and sheep. Milk production is largely carried on; cheese is not produced, and little butter.

There has been some building of residential houses in the district, which bring an influx of retired people to live in them. There is a limestone quarry at Dyserth, where lime and stone are produced in large quantities; but one at Bodfari is still closed on account of the prevailing depression. There is still some unemployment within the district, although road widening and extensions have been a boon in the district.

A comprehensive re-housing scheme has been carried out in St. Asaph, the Council having secured an excellent site, about 5 acres in extent, on which 36 houses have been erected.

A housing site has been secured in the parish of Bodelwyddan, and 8 more houses are to be built here. Thirty more are to be built at Rhuddlan, and negotiations are in progress for a site at Tremeirchion.

VITAL STATISTICS.

BIRTH RATE.

The total number of births registered in the district during the year 1937 was 102—65 males and 37 females—3 more than in 1936. Of that number 8 were illegitimate—6 males and 2 females. There were 5 legitimate still-births and no illegitimate still-births. The 102 births give a rate of 13.94 per 1,000 of the resident population, compared with 14.9 per 1,000 for England and Wales.

DEATH RATE.

The total number of deaths registered during the year was 152—87 males and 65 females—giving a death rate of 20.70 per 1,000 of the resident population. This number is to be corrected by the exclusion of 66 deaths of persons who were non-residents (many of them being inmates of the Public Assistance Hospital at St. Asaph, where patients are now admitted from many parishes in the county of Flint). These have to be deducted, as they belong to places outside the district. On the other hand, 15 residents died in institutions and places outside the district, and have to be included. Thus the nett or " corrected " deaths are 100—60 males and 40 females—which give a death rate of 13.6 per 1,000 of the resident population, compared with 12.4 per 1,000 for England and Wales.

Table III gives the causes and ages at death.

INFANTILE MORTALITY.

The number of deaths of infants under one year of age was 5, giving a death rate of 49.01 per 1,000 births, compared with 58 per 1,000 for England and Wales.

Table IV gives the causes and ages at death.

INFECTIOUS DISEASES.

There were 34 cases of infectious disease reported during the year, against 33 cases the previous year (excluding 11 cases of tuberculosis from this category). There were 20 cases of scarlet fever, 6 of diphtheria, 3 of pneumonia, 3 of puerperal pyrexia, 1 of encephalitis lethargica. There was no case of polio-myelitis, cerebro-spinal fever, typhoid, paratyphoid, whooping cough or measles.

Table II gives further information regarding these cases, with ages and distribution among the different parishes.

ZYMOTIC MORTALITY.

There was one death from encephalitis lethargica; no death from typhoid, paratyphoid, measles, scarlet fever, whooping cough, acute polio-myelitis, cerebro-spinal meningitis or influenza.

EXTRACTS FROM VITAL STATISTICS FOR 1937.

	Total.		Males.	Females
Births	102	Legitimate	59 ...	35
		Illegitimate	6 ...	2

Birth Rate—13.94

	Total.	Males.	Females.
Deaths	152 ...	87 ...	65
Corrected Deaths...	100 ...	60 ...	40

Corrected Death Rate—13.6

Number of cases of women dying in, or in consequence of, childbirth:—

From Sepsis ... ... None.

From other causes ... ... None.

Deaths of infants under 1 year of age—Total, 5.

Legitimate	5
Illegitimate	0
Rate per 1,000 Births	49.01
Deaths from Measles	0
Deaths from Whooping Cough	0
Deaths from Diarrhœa (under 2 years of age)...	1

		Total.	Males.	Females.
Stillbirths	Legitimate	5 ...	0 ..	5
	Illegitimate ...	0 ...	0 ...	0

NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1937.

	All ages.	1 to 5 years.	5 to 15 years.	15 to 25 years.	25 to 45 years.	45 to 65 years.	65 and upwards.	Cases Admitted to Hospital.	Admitted to Public Assistance Hospital.	Deaths Total.
Diphtheria	6	...	6	...	...	...	...	6	...	0
Scarlet Fever	20	4	10	3	3	...	...	18	...	0
Typhoid and Para Typhoid	0	...	...	...	...	...	...	...	...	0
Puerperal Fever and Pyrexia	3	...	...	1	2	...	...	3	...	0
Pneumonia	3	...	...	...	1	1	1	...	...	12
Erysipelas	0	...	...	...	...	...	...	...	...	0
Acute Poliomyelitis	0	...	...	...	...	...	...	...	...	0
Cerebro-spinal Meningitis	0	...	...	...	...	...	...	...	...	0
Encephalitis Lethargica	1	...	...	...	...	...	...	...	...	1
Ophthalmia Neonatorum	2	2	...	...	...	...	...	...	...	0
Total	35	6	16	4	6	1	1	27	...	13

OPHTHALMIA NEONATORUM.

Two cases occurred during the year. One was treated at the Public Assistance Hospital, and the other was treated at home.

TUBERCULOSIS.

The total number of cases of tuberculosis was eleven, and the number of deaths from it was two.

Particulars of all cases of tuberculosis notified are forwarded every week to the County Medical Officer.

NEW CASES AND MORTALITY BELONGING TO THE DISTRICT DURING 1937.

Age Periods	New Cases.				Deaths.			
	Pulmonary.		Non-Pulmonary.		Pulmonary.		Non-Pulmonary.	
	M.	F.	M.	F.	M.	F.	M.	F.
0		...		...		...		
1		...		...		...		
5		...		...		..		
10		...		...		...		
15	1	...	1	...	1	...		
20	1	...		...		...		
25	2	...		...		...		
35	3	...		...	1	..		
45	1	...		...		...		
55	2	...		...		...		
65 and upwards		...		...		...		
Totals	1	9	... 1	...	1	1	...	

(1) All cases were notified in the area. No action had to be taken for non-notification in the area.

(2) No evidence of excessive incidence or mortality from Tuberculosis.

PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925.

No action was taken under the above Regulations.

PUBLIC HEALTH ACT, 1925. SECTION 62.

No action was required under Section 62 of the Public Health Act, 1925.

THE ISOLATION HOSPITAL.

During the year 29 cases were treated in the Isolation Hospital—19 of scarlet fever, 7 of diphtheria, and 3 of puerperal fever.

	Scarlet Fever.	Diphtheria.	Erysipelas.	Puerperal Fever.	Typhoid	Measles with Meningitis	Total
Other Districts	59	104	7	11	1	1	183

The total number treated in the Isolation Hospital at St Asaph was 212.

DISTRICT STAFF.

The staff of the combined district consists of a Medical Officer of Health (part-time, an M.D., M.R.C.S., D.P.H.), a Sanitary Inspector and Surveyor (F.S.I.A., Cert. R.S.I.), a Clerk and Secretary, a Steward and Collector, together with the following staff at the Isolation Hospital:—Miss Williams, Matron, who is an S.R.N. and S.C.M., registered, with fever trained experience, a staff nurse and assistant nurses (also when required, when the Hospital is very full and much night nursing necessary, extra temporary nurses are engaged). Four probationary nurses, a cook, a laundress and three ward maids are also on the staff, together with porter and gardener.

DISINFECTION.

Arrangements for disinfection can be made as required with the Steward. A Washington Lyon disinfecting apparatus in the Hospital grounds is used as required.

SUMMARY OF NURSING ARRANGEMENTS.

HOSPITAL AND OTHER INSTITUTIONS AVAILABLE FOR THE DISTRICT.

GENERAL.—There are District Nurses with C.M.B. qualifications in all the parishes. Generally two parishes join together to support one, as at Tremeirchion and Waen; Dyserth, Meliden and Cwm. A Nursing Association at Rhuddlan has Bodelwyddan joined to it. St. Asaph also has a good organised service. Bodfari is joined to Caerwys for nursing purposes.

CLINICS AND TREATMENT CENTRES.—The nearest Flintshire Centre is at Rhyl, where there is a Maternity and Child Welfare Centre under the control of the Flintshire County Council and their Health Visitor. Some who live in the surrounding parishes make use of it.

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

(1) TUBERCULOSIS: No private institution is provided in the district for tuberculosis, but patients who cannot afford treatment in private institutions are well provided for by the King Edward VII Welsh National Memorial Association (Denbighshire and Flintshire area), whose Medical Officers visit Clinical Centres at Denbigh and Rhyl, where patients from the districts are examined and suitable cases are sent to institutions provided for them in North Wales and Central Wales.

(2) MATERNITY: There are maternity wards in the St. Asaph Union Infirmary.

(3) THERE ARE COTTAGE HOMES at Holywell, run by the Guardians, for illegitimate and homeless children.

(4) FEVER: For fever cases there is available the Isolation Hospital of the St. Asaph and District Conjoint Hospital Board at St. Asaph, which is kept in excellent condition, well staffed and well managed, with accommodation for 40 patients.

(5) SMALL POX: There is a Hospital provided by the County Authorities at Connah's Quay.

(6) OTHER INSTITUTIONS: The Denbighshire Infirmary is within convenient distance of the district, and is much made use of. They have a motor ambulance in connection with the institution, which can be hired. The Royal Alexandra Hospital

and the Convalescent Homes for Men and Women, Rhyl, are also taken advantage of by this district. The County Hospital at St. Asaph is also used for patients who can pay a little above the ordinary cost of maintenance there. There is also the War Memorial Hospital, Rhyl.

AMBULANCE FACILITIES.

(a) For infectious cases a hired motor ambulance from Messrs. Brookes Brothers, Rhyl, is used.

(b) For non-infectious cases and accident cases there is a motor ambulance on hire in connection with the Denbigh Infirmary, and another by a private firm, Messrs. Brookes Brothers, Rhyl, which is used generally to remove cases to the Rhyl Hospitals.

LABORATORY WORK.

Bacteriological examinations are paid for those who cannot bear the expense, as well as diphtheria antitoxin.

VENEREAL DISEASES.

These cases come under the control of the Flintshire County Council, and patients have to be admitted to the Chester Infirmary for treatment.

SECTION C.—SANITARY CIRCUMSTANCES OF THE AREA.

1.—(i) **Water.**

The extension to the works of water supply in the parish of Cwm, referred to in my last year's report, has been carried out, namely to supply the Bwlch area and the district extending from Pwllhalog to Pant y Dulath, and including a branch pipe to Tyddyn-y-Driw and Dyffryn Aur. This completes a comprehensive scheme for the parish of Cwm, and it proved satisfactory through last year's drought. The local sources of supply were nearly sufficient. The supplementary supply from the mains of the Holywell R.D.C., which are supplied by the Birkenhead Corporation, was only used for a few days during the height of the drought.

The supply in the village of Tremeirchion was not sufficient during the drought to provide continuous pressure in the mains, and the Council have therefore under consideration a scheme for a proposed supplementary supply from the mains of the Holywell R.D.C. in the same way as in the parish of Cwm.

(ii) **Drainage and Sewerage.**

The sewerage and sewage disposal scheme for the City of St. Asaph, referred to and described fully in my last report, has been completed. It is gratifying to note the long standing nuisance in the old mill stream has now been rectified. These works are of modern design and construction, and are a credit to the Council and to the Engineer who designed them. The process of purification is complete. The sewage is pumped by the electric automatic chamber plant through the screening chamber, sedimentation tanks and percolating filters to the humus tanks and sludge filters, and the effluent is discharged in a purified state into the river Elwy.

The Council are in negotiation with the owner of the land for an outfall pipe to finally dispose of the effluent from the sewage disposal works in connection with the Council's houses in the parish of Bodfari. The effluent now discharges into the roadside ditch, where there is insufficient flow of water to dispose of it in a satisfactory manner, and it is hoped that the Council will be able to proceed with this work quite soon.

2.—**Rivers and Streams.**

The serious pollution of the river Elwy with crude sewage from the main sewer below Mill Street, St. Asaph, has now been stopped through the construction of the new main sewer and the new drainage works.

3.—(i) **Closet Accommodation.**

There are only very few privies in the populous areas of the district where sewers are available. About 90 per cent. of the closet accommodation, where no sewers are available, are of the privy type with fixed receptacles, the remaining 10 per cent. being of the privy type with removable receptacles.

(ii) **Public Cleansing.**

Scavenging schemes by contract are in operation in the parishes of Bodelwyddan, Dyserth, Rhuddlan and St. Asaph. In the first three parishes the removal of house refuse from ash-bins, &c., also the removal of contents of pail closets is undertaken by the Council. A similar scheme for St. Asaph is in operation for dry refuse only, and Tremeirchion also has a scheme now.

Cesspools in Dyserth are cleansed with a special covered horse cart, with pumps, and the contents are disposed of on agricultural land.

In other parts of the district the above work and cleansing is done by the occupier, and refuse is disposed of, as a rule, on the land.

The Council have controlled tips at Dyserth, Rhuddlan, St. Asaph and Tremeirchion.

(iii) **Sanitary Inspection of the Area.**

A classified statement of the number of premises visited, the defects discovered, and the action and result of action taken is appended to this report.

(iv) **Shops.**

No action was found necessary during the year.

(v) **Smoke Abatement.**

No action was found necessary during the year.

(vi) **Swimming Baths and Pools.**

There are no public or privately owned swimming baths or pools open to the public in the district.

(vii) **Eradication of Bed Bugs.**

No bed bugs were found in Council houses or any other houses, but in inspecting the 51 houses scheduled for demolition or closure, information was received that three houses were infested with bugs, also two houses which were over-crowded. The Council therefore engaged a Manchester firm of expert contractors to disinfest with cyanide gas, and the furniture was removed by the Council from the unfit houses to the new Council houses. The two houses from which the over-crowded families were removed, including the furniture, were disinfested by the Council staff.

4.—**Schools.**

All schools in the district have a wholesome supply of pure water on the premises. The schools are closed when necessary during epidemics to prevent the spread of infectious disease.

SECTION D.—HOUSING.

1.—Inspection of Dwelling Houses during the Year:—

(1)	(a) Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts)	112
	(b) Number of inspections made for the purpose... ...	388
(2)	(a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	40
	(b) Number of inspections made for the purpose	150

(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation... 40

(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation —

2.—Remedy of Defects during the year without Service of formal Notices:—

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers 6

3.—Action under Statutory Powers during the Year:—

(a) Proceedings under sections 9, 10 and 16 of the Housing Act, 1936.

(1) Number of dwelling-houses in respect of which notices were served requiring repairs ... ... —

(2) Number of dwelling-houses which were rendered fit after service of formal notices:—

(a) By owners... ... ... —

(b) By Local Authority in default of owners ... ... —

(b).—Proceedings under Public Health Acts:

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied 32

(2) Number of dwelling-houses in which defects were remedied after service of formal notices:—

(a) By owners... 1

(b) By Local Authority in default of owners ... ... —

(c).—Proceedings under sections 11 and 13 of the Housing Act, 1936:—

(1) Number of dwelling-houses in respect of which Demolition Orders were made 2

(2) Number of dwelling-houses demolished in pursuance of Demolition Orders ... ... —

(d).—Proceedings under section 12 of the Housing Act, 1936·

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made 8

(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit ... ... —

4.—Housing Act, 1936, Part IV.—Overcrowding:—

(a).—(i) Number of dwellings overcrowded at the end of the year	51
(ii) Number of families dwelling therein...	53
(iii) Number of persons dwelling therein...	316
(b).—Number of new cases of overcrowding reported during the year	—
(c).—(i) Number of cases of overcrowding relieved during the year	2
(ii) Number of persons concerned in such cases ...	12
(d).—Particulars of any cases in which dwelling-houses have again become overcrowded after the Local Authority have taken steps for the abatement of overcrowding	—
(e).—Any other particulars with respect to overcrowding conditions upon which the Medical Officer of Health may consider it desirable to report	—

The erection of houses for re-housing persons from unfit houses will considerably reduce the number of overcrowded dwellings.

SECTION E.—INSPECTION AND SUPERVISION OF FOOD.

(a) **Milk Supply.**

Periodical inspections are made of all the dairies and cowsheds in the district. Samples of milk for analysis are collected by the County Council.

Some improvements have been carried out during the year to dairies and cowsheds under the Milk and Dairies Order of 1926, at several farms. Still there is much to be done to bring the dairy farm up to modern requirements, both as to structure of buildings and as to perfect cleanliness, to ensure pure milk, free of bacteria and bacillus coli.

Licences are issued by the County Council for the production of **tuberculin tested** milk and **accredited milk.** In these there has to be compliance with certain test analyses. The herds have to be isolated and kept separate from non-tested herds. The milk has to be kept and stored in sterilised utensils.

Pasteurised Milk.—Licences for this have to be issued by the Rural District Council, but so far no application has been received. The milk has to be treated by heating it up to from 145. to 150. F.

and holding it at this temperature for half an hour. It is then immediately cooled to not more than 55.F. This process has to be carried out in a suitable plant. The milk also has to comply with a certain standard of analysis with regard to bacteria. The price of the licence to produce this milk is one guinea.

Certified milk is produced on a large scale at Cwybr Farm, Rhuddlan.

(b) Meat and Other Foods.

Slaughter-houses and meat shops were inspected from time to time. The shops and slaughter-houses are kept clean.

Carcases Inspected and Condemned.

	Cattle, excluding cows.	Cows.	Calves.	Sheep and Lambs.	Pigs.
Number killed (if known)		...	...	...	...
Number inspected	24	...	...	... 460	... 105
All diseases except Tuberculosis.					
Whole carcases condemned		...	..	...	...
Carcases of which some part or		...	...	...	...
organ was condemned		...	...	...	...
Percentage of the number inspected		...	...	..	...
affected with disease other than		...	...	...	...
tuberculosis		...	...	.. 1	... 1
Tuberculosis only.					
Whole carcases condemned		...	...	...	...
Carcases of which some part or		...	. .	...	...
organ was condemned		...	...	...	...
Percentages of the number inspected		...	...	...	...
affected with tuberculosis		...	...	...	...

(c) Adulteration, &c.

A summary is attached to this report showing samples of food and drugs collected for analysis, together with the result.

(d) Chemical and Bacteriological Examination of Food.

Food inspection is mainly done by the County Council, and samples of food for chemical and bacteriological examination are taken by the same authority.

(e) Nutrition.

The District Council have taken no action in this matter apart from what is done by the Public Health Officials in the execution of their duties.

(f) No **Shell-fish** (Molluscan) are laid in the district.

GENERAL.

Under the **Housing Scheme** a record number of houses were built during the year for re-housing displaced St. Asaph families from unfit houses and families from over-crowded houses. The houses built are of a pleasing design, commodious, well lighted and ventilated, with an excellent concrete road on the estate.

The Council were fortunate in securing a comprehensive and desirable site, not only for the 36 houses already built, but also for future requirements in the city. The scheme includes 32 houses of 3 bedrooms each and 4 houses of 4 bedrooms each.

The persons living in the unfit or condemned houses were most anxious to move into the new houses, and a large number are still not provided with new houses. The cost is roughly estimated, with the land, roads, etc., at £15,800.

Drainage Works at St. Asaph.—Another outstanding scheme carried out by the Council during the year was the sewerage and sewage disposal scheme for the parish of St. Asaph. We have a monument to the progressive policy of the Council and the skill of the engineer in the thorough manner in which the whole works for the treatment of crude sewage have been carried out, and in the way the effluent has been purified, giving the appearance of pure water. It is undoubtedly the best scheme in North Wales.

Hospital Accommodation.—The Isolation Hospital has been overtaxed of late on account of the large number of cases admitted from outside the joint Hospital Board area. The Board consists of representatives of the following Councils:—Denbigh Borough, in the County of Denbigh; Abergele U.D.C., in the County of Denbigh; Aled R.D.C., in the County of Denbigh; Prestatyn U.D.C., in the County of Flint; St. Asaph R.D.C., in the County of Flint.

The accommodation was ample for the needs of the above combined district, but during recent years a large number of cases were admitted from outside the district, viz., from Connah's Quay, Buckley and other districts, with the result that applications were received for the inclusion in the Joint Hospital Authority of Buckley U.D.C. and Connah's Quay U.D.C. Satisfactory terms were agreed upon, and the Councils were included as from 1st April, 1938. The Board immediately applied to the Welsh Board of Health for an amendment of their Order to include the new constituent authorities.

Since then an application has been received from Mawddwy R.D.C. for inclusion as a constituent authority upon terms agreed upon.

There has been some delay in the issue of the amending Order.

The Flintshire County Council have submitted their scheme under section 185 of the Public Health Act, 1936, to the Welsh Board of Health. There has been some delay on the part of Denbighshire County Council in submitting their scheme under the same section.

In view of the possible enlargement of the district it was felt that extensive additions and alterations to the existing Hospital would be necessary, and accordingly the Board gave instructions to Mr. F. A. Roberts, architect, Mold, to prepare the necessary plans. These plans have been approved by the Welsh Board of Health. To enable the Board to carry out the extensions it will be necessary to acquire an additional $1\frac{3}{4}$ acres of land. They are negotiating with the owner as to terms for the purchase. The Board do not intend to advertise for tenders until they know their position regarding the new constituent authorities to be included in the enlarged district.

The Board have also had informal meetings with representatives of Ruthin Borough Council and Ruthin R.D.C. as to the terms for their inclusion as constituent authorities.

If this scheme is carried out, the following improvements approved by the Ministry of Health, would be carried out:—The nurses' home to be increased, and to have altogether 30 beds; 3 additional cubicles to cubicle block; a new pavilion block, with combined cubicles; later, if necessary, an extra combined cubicle pavilion block, with an operating theatre. If and when the new alterations and additions are carried out, it will be the finest hospital in North Wales.

There is also a further extension at the Public Assistance Hospital at St. Asaph. There is a large addition to the nurses' quarters by the erection of quite a large new building, more nurses being required at the hospital and better accommodation for them at the home.

(Signed) HENRY LLOYD,

M.D., M.R.C.S., L.S.A., D.P.H.

Medical Officer of Health.

TABLE I.

Vital Statistics of Whole District during 1937 and previous years

Name of District—ST. ASAPH RURAL DISTRICT.

Year.	Population estimated to Middle of each Year.	Births.			Total Deaths Registered in the District.		Transferable Deaths		Nett Deaths belonging to the District.			
									Under 1 Year of Age.		At all Ages.	
		Uncorrected Number.	Nett Number.	Nett Rate.	Number	Rate.	Of Non-residents registered in the District.	Of Residents not registered in the District.	Number.	Rate per 1000 Nett Births.	Number	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1919	for B 6668, for D 6101	107	107	16·03	121	18·90	25	8	11	120·8	104	16·24
1920	6566	150	150	22·53	120	18·00	26	8	7	46.6	102	15·3
1921	for B 7690, for D 7382	107	107	31·91	108	14·61	23	10	12	112 1	95	12·86
1922	for B 7670, for D 7362	117	117	15·25	104	14·12	25	16	8	68·30	95	12 91
1923	7730	143	137	17·71	137	17·72	30	13	8	58·39	117	15·13
1924	7293	119	119	16·10	100	13·59	21	13	5	42·01	92	12·50
1925	7293	146	146	20·01	120	11·77	10	10	10	68·49	120	16·45
1926	7780	121	121	15·55	124	16·45	24	8	12	99·17	108	13.88
1927	8160	100	100	12 25	121	14·82	19	19	5	41.32	121	14·82
1928	7914	99	99	12·50	129	16·30	28	10	4	40·40	111	14·02
1929	8020	109	109	13·59	132	16·32	20	17	11	100·91	129	16·08
1930	8030	112	112	13·9	119	13·59	28	20	7	62.5	111	13·84
1931	7873	109	109	13·8	134	17·02	36	13	4	36·6	111	14·09
1932	7999	100	100	12·51	127	15·87	29	19	5	50·0	117	14·62
1933	8117	110	110	13·55	133	16·38	27	12	1	9·1	118	14·53
1934	7468	80	80	10·71	131	17·54	40	13	3	37·5	103	13·79
1935	7218	98	98	13·5	153	21·1	45	13	8	81·6	108	15·1
1936	7255	99	99	13·6	140	19·2	61	12	12	121 2	90	12·40
1937	7316	102	102	13·94	152	20·70	66	15	5	49·01	100	13.6

Area of District in acres (land and inland water): 23,057. Total population at all ages: 7,873, at Census, April, 1931.

TABLE II.

Cases of Infectious Diseases notified during the year 1937 in the St. Asaph Rural District.

Diseases Notified.	Number of Cases Notified. At Ages—Years. 1 and under 5	5 and under 15	15 and under 25	25 and under 45	45 and under 65	65 and upwards	At all Ages	Total Cases Notified in each Locality. St. Asaph	Bodelwyddan	Rhuddlan	Dyserth	Bodfari	Waen	Cwm	Tremeirchion		Treated in Isolation Hospital.	Treated in Public Assistance Hospital.
Diphtheria	...	6	..	.	...	...	6	1	...	4	1	.....	...	1	...	...	6	...
Scarlet Fever	4	10	2	4	...	...	20	2	1	12	1	1	1	...	1	...	18	...
Typhoid and Para Typhoid ...	...	...	...	..	..	..	...	...	.	...	....	.....	...	...	...	..	...	..
Pneumonia	...	..	...	1	1	1	3	...	1	..	2	.....	...	...	...	...	.	...
P'peral Pyrexia and P'eral Fever	...	...	1	2	...	...	3	..	...	1	1	....	...	...	1	...	3	...
Erysipelas	...	..	...	...	...	...	...	...	...	...	.....	.....	...	...	...	...	...	...
Acute Poliomyelitis	...	...	...	...	...	..	.	...	...	...	.....	.. ..	...	..	...	...	...	...
Cerebro Spinal Meningitis ...	...	...	...	...	...	...	...	...	...	...	....	.....	...	..	...	...	...	...
Encephalitis Lethargica ...	...	..	...	...	1	...	1	...	..	...	.. .	....	...	...	1	...	...	...
Ophthalmia Neonatorum ...	2	...	...	...	...	...	2	1	...	1	.....	....	...	...	...	...	...	2
	6	16	3	7	2	1	35	4	2	18	5	1	1	1	3		27	2

St. Asaph and District Conjoint Isolation Hospital. Sanatoria: None

TABLE III.

Causes of and Ages at Death during the year 1937.

Name of District— ST. ASAPH RURAL DISTRICT

Causes of Death.	ANALYSIS OF NETT DEATHS ACCORDING TO AGE.							
	All Ages.	Under 1 year.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and under 100 years.
1 Typhoid & Paratyphoid Fevers	...	..	..	..	..	..	..	..
2 Measles	..	..	..	..	..	..	..	..
3 Scarlet Fever	..	..	...	..	..	..	..	..
4 Whooping Cough	..	...	..	..	..	..	..	...
5 Diphtheria	1	..	1	..	..	..	..	..
6 Influenza	...	..	..	...	..	..	..	..
7 Encephalitis Lethargica	1	..	..	..	...	1	..	..
8 Cerebro-Spinal Fever	..	..	..	..	..	..	..	..
9 Tuberculosis of respiratory system	1	..	..	..	..	1	...	..
10 Other Tuberculous Diseases ...	1	..	..	..	1	...	...	..
11 Syphilis	1	..	..	...	..	..	1	..
12 General Paralysis of the Insane	...	..	..	...	..	..	..	..
13 Cancer	14	..	..	..	..	..	5	9
14 Diabetes	2	..	..	..	..	1	..	1
15 Cerebral Hæmorrhage, &c. ...	11	..	..	..	..	..	3	8
16 Heart Disease	22	..	..	..	..	..	6	16
17 Aneurism	..	..	..	..	..	..	..	..
18 Other Circulatory Diseases and Arterio Cirrhosis	6	..	..	..	..	..	2	4
19 Bronchitis	4	1	..	..	..	..	..	3
20 Pneumonia (all forms)	12	1	...	...	..	1	1	9
21 Other Respiratory Diseases ...	..	..	..	..	..	...	..	..
22 Peptic Ulcer	..	..	...	..	..	..	..	...
23 Diarrhœa, &c. (under 2 years) ...	1	1	..	..	..	..	..	..
24 Appendicitis	2	..	..	1	..	1	..	..
25 Cirrhosis of Liver	..	..	..	..	..	...	..	..
26 Other Diseases of Liver, &c. ...	...	..	..	..	..	..	..	..
27 Other Digestive Diseases ...	..	..	..	..	..	...	..	..
28 Acute and Chronic Nephritis ...	...	..	..	..	..	..	...	...
29 Puerperal Sepsis	...	..	..	..	..	...	..	..
30 Other Puerperal Causes	...	..	..	..	..	...	..	..
31 Congenital Debility, Premature Birth, Malformations, &c. ...	3	3	..	..	..	..	..	..
32 Senility	10	..	..	..	..	..	..	10
33 Suicide	..	..	..	..	..	..	..	..
34 Other Violence	3	..	..	..	1	1	.	1
35 Other Defined Diseases	5	..	..	..	..	1	1	3
36 Causes Ill-defined or Unknown	..	..	..	..	..	..	..	..
Total	100	6	1	1	2	7	19	64

TABLE IV.

Infant Mortality during the Year 1937.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

Name of District—ST. ASAPH RURAL DISTRICT

Causes of Death.	Under 1 week.	1—2 weeks.	2—3 weeks.	3—4 weeks.	Total under 4 weeks	4 weeks and under 3 months.	3 months and under 6 months.	6 months and under 9 months.	9 months and under 12 months.	Total Deaths under 1 year.
All causes { Certified ...	..	..	...	.	..	...	...	...	...	...
All causes { Uncertified ...	..	...	..	...	.	...	...	...	...	.
Small-pox	...	.	..	.	.	...	...	...	...	...
Chicken-pox	.	...	...	..	.	...	...	...	..	...
Measles	.	...	...		.	...	...	...	...	...
Scarlet Fever	..	...	..	...	..	...	...	...	...	...
Whooping Cough ...	.	.	..	...	.	...	...	...	...	...
Diphtheria and Croup ...	..	.	...	.	...	...	...	...	...	...
Erysipelas	...	.	..	...		...	...	...	...	...
Tuberculous Meningitis ...	..	.	.	.	...	...	...	...	..	...
Abdominal Tuberculosis ...	...	...	...			...	.	..	...	...
Other Tuberculous Diseases	.	..	..		...	...	...	...	...	..
Meningitis (*not Tuberculous*)	.	.	...	...	..	...	...	...	...	...
Convulsions	..	...	.	...	..	...	...	...	...	...
Laryngitis	...	.	.		...	...	...	...	...	..
Bronchitis		..	.	1	1	...	...	...	...	1
Pneumonia (all forms) ...	..	.	..	..	...	1	...	..	...	1
Diarrhœa	.	..	.	.	.	...	...	...	...	...
Enteritis	.	..				...	...	...	...	...
Gastritis	.	.	..	...	...	...	...	..	...	...
Syphilis	...	..	..		..	...	...	..	...	...
Rickets	.	..		.	...	...	...	...	...	...
Suffocation, overlying ...	.	.	..	.	...	...	...	...	...	..
Injury after Birth ...		..	.	.		...	...	...	...	...
Atelectasis	..	...	..	.	.	...	...	...	...	...
Congenital Malformations ..	.		..	.	...	...	...	...	..	...
Premature Births ..	2	.	...		2	...	...	..	.	2
Atrophy, Debility & Marasmus		1	..		1	...	...	...	...	1
Influenza	..	...	..		...	...	...	...	..	...
Other Causes		.	.		...	...	...	...	...	..
Totals ...	2	1	...	1	4	1	...	...	...	5

Nett Births registered during the calendar year 102 { Legitimate .. ... 94; Illegitimate 8

Nett Deaths registered during the calendar year 5 { Legitimate Infants .. 5; Illegitimate Infants .. 0

Still-births 8 – Legitimate: Male 3, Female 5.
Illegitimate: Male 0, Female 0.

TABLE V.

Causes of and Ages at Death during the year 1937.
Name of District.—ST. ASAPH PUBLIC ASSISTANCE INSTITUTION.

Causes of Death.	ANALYSIS OF NETT DEATHS ACCORDING TO AGE.							
	All Ages.	Under 1 year.	1 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and under 100 years.
1 Typhoid & Para Typhoid ...	...	...	...	...	...	...	...	...
2 Measles	...	...	...	...	...	...	...	...
3 Scarlet Fever	...	...	...	...	...	...	...	...
4 Whooping Cough	...	...	...	...	...	...	...	...
5 Diphtheria	...	...	...	...	...	...	...	...
6 Influenza	...	...	...	...	...	...	...	...
7 Encephalitis lethargica	...	...	...	...	...	...	...	...
8 Cerebrospinal Fever	...	...	...	...	...	...	...	...
9 Tuberculosis of respiratory system	1	...	...	...	1	...	...	...
10 Other Tuberculous diseases.	1	...	...	...	...	1	...	...
11 Syphilis	1	...	...	...	...	...	...	1
12 General Paralysis of the Insane	...	...	...	...	...	...	...	...
13 Cancer malignant diseases...	6	...	...	...	...	...	3	3
14 Diabetes	2	...	...	...	1	1	...	...
15 Cerebral hæmorrhage	8	...	...	...	...	...	1	7
16 Heart Disease	8	...	...	...	...	...	2	6
17 Aneurism	...	...	...	...	...	...	...	...
18 Other circulatory diseases ...	4	...	...	...	...	...	1	3
19 Bronchitis	...	...	...	...	...	...	...	...
20 Pneumonia (all forms)	4	1	...	...	...	...	1	2
21 Other respiratory diseases ...	...	...	...	...	...	...	...	...
22 Peptic Ulcer	...	...	...	...	...	...	...	...
23 Diarrhœa, &c. (under 2 y's)	...	...	...	...	...	...	...	...
24 Appendicitis	...	...	...	...	...	...	..	...
25 Cirrhosis of Liver	...	...	...	...	...	...	...	...
26 Other Diseases of Liver, &c.	...	...	...	...	...	...	...	...
27 Other Digestive Diseases ...	...	...	...	...	...	...	...	...
28 Acute & Chronic Nephritis.	3	...	...	...	...	...	1	2
29 Puerperal Sepsis	...	...	...	...	...	..	...	...
30 Other Puerperal causes	3	...	...	...	...	3	...	...
31 Congenital Debility & Premature birth malformations etc., and stillborn	4	4	...	...	...	...	...	...
	9	...	...	...	...	...	...	...
32 Senility	19	...	...	...	...	...	1	18
33 Suicide	...	...	...	...	...	...	...	...
34 Other violence	1	...	...	...	...	1	...	...
35 Other defined diseases	3	...	1	...	1	...	...	1
36 Causes ill-defined or unknown	...	...	...	...	...	...	...	...
Totals	77	5	1	...	3	6	10	43

Annual Report of the Medical Officer of Health for the year 1937. for the Rural District of St. Asaph, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, and Workplaces.

1.—Inspection of Factories, Workshops and Workplaces.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises (1)	Number of Inspections (2)	Written Notices (3)	Prosecutions (4)
Factories (Including Factory Laundries)	11	1	..
Workshops (Including Workshop Laundries)	110	2	..
Workplaces (Other than Outworkers' premises)	..	..	..
Total	121	3	..

2.—Defects Found in Factories, Workshops & Workplaces.

Particulars (1)	Number of Defects. Found (2)	Remedied (3)	Referred to H.M. Inspector (4)	Number of Prosecutions (5)
Nuisances under the Public Health Acts:—*				
Want of cleanliness	3	3	..	..
Want of ventilation	..	..	..	..
Overcrowding	..	..	..	..
Want of drainage of floors	1	1	..	..
Other nuisances	..	..	..	..
Sanitary accommodation — insufficient	..	..	..	..
Sanitary accommodation — unsuitable or defective	..	..	..	..
Sanitary accommodation — not separate for sexes	..	..	..	..
Offences under the Factory & Workshop Acts:				
Illegal occupation of underground bakehouse (s. 101)	..	..	..	..
Other offences	..	..	..	..
Total	4	4	..	..

* Including those specified in Sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

3.—Outwork in Unwholesome Premises, Section 108.

Nil.

HENRY LLOYD, M.D., M.R.C.S., D.P.H., L.S.A.,
Medical Officer of Health.

St. Asaph Rural District Council.

ANNUAL REPORT OF THE SANITARY INSPECTOR FOR THE YEAR 1937.

St. Asaph,

29th January, 1938.

To the Chairman and Members of the St. Asaph Rural District Council.

Gentlemen,

I have the honour to lay before you my Annual Report for 1937.

Total number of inspections and visits made	1270

INFECTIOUS DISEASES.

Number of cases inquired into...	26
Number of houses disinfected	30

DWELLINGS.

Number erected	54
Number made fit for habitation	6
Number of cases of overcrowding	50

DRAINAGE, &c.

Number laid or re-laid	96
Number cleaned, trapped and ventilated	15
Number of new water closets	75
Number of repairs to water closets	94
Number of new privies and ashpits	6
Number of privies converted into W.C.'s	2

SCAVENGING.

	Bodelwyddan.	Dyserth.	Rhuddlan.	St. Asaph.
No. of Cesspools emptied ...	—	1	—	—
No. of Privies emptied	—	—	32	—
No. of Pail Closets emptied..	1300	1555	nil	—
No. of Ashbins emptied... ...	3432	11670	9473	10960
No. of Ashpits emptied... ...	—	1	32	—
No. of Loads of Refuse... ...	102	157	416	360
No. of Tons of Refuse	—	—	—	1260

	£	s.	d.
Total Cost of Scavenging at Bodelwyddan	48	2	4
Total Cost of Scavenging at Rhuddlan	133	12	1
Total Cost of Scavenging at Dyserth	126	15	5
Total Cost of Scavenging at St. Asaph	124	18	6

Bodelwyddan: 52 loads of refuse were disposed of in the Rhuddlan tip and 52 in the farm of the scavenger.

REFUSE.

Number of accumulations removed	40

WATER.

Number of new places supplied	60
Number of repairs, fittings, etc.	76

DAIRIES AND COWSHEDS.

Number of new dairies erected...	1
Number of cowsheds erected	1
Number of dairies repaired	2
Number of cowsheds repaired	11
Number of persons registered...	86
Number of registered places in use and inspected	86

SLAUGHTER HOUSES.

Number registered or licensed	10
Number erected	—
Number repaired	1

OFFENSIVE TRADES.

Number dealt with	1

ANIMALS.

Number of cases causing nuisance	10

LODGING HOUSES.

Number registered and inspected...	—

CLERICAL WORK.

Number of letters received...	545
Number of letters written	424
Number of informal notices served	32
Number of informal notices complied with	28

LEGAL PROCEEDINGS.

Number of formal notices served...	4
Number of formal notices complied with	4
Number of prosecutions...	—

FACTORIES AND WORKSHOPS.

Number registered	63
Number of written notices	3
Number complied with	3

FOOD AND DRUGS.

The following was kindly supplied by the Superintendent of Police:—

Superintendent's Office,
Rhyl.

Description of Sample.	No. of Samples.	Genuine.	Doubtful.	Remarks.
New Milk	21	15	6	Cautioned.
Nestles Full Cream Condensed Milk	1	1	—	
Pure Somerset Cream	1	1	—	
"Rhyl" Cheese	1	1	—	
"Trex" Cooking Fat	1	1	—	
Empire Honey	1	1	—	
Ox-Tail Soup	1	1	—	
Self Raising Flour	1	1	—	
Malt Vinegar	1	1	—	
Lard	1	1	—	
Pork Sausage	1	1	—	
White Bread	1	1	—	
Total	32	26	6	

Yours faithfully,

A. E. LINDSAY, Supt.

WATER SUPPLY.

Gaugings of the yield of water in gallons per day of 24 hours at the sources of supply for the parishes of Cwm and Tremeirchion:—

CWM.

Source.	Date.	Yield in Gallons per 24 hours.
Aelwyd Uchaf—	June 15	7776
	August 7	3491
	September 7	2770
	October 2	2386
Fron—	June 21	5760

TREMEIRCHION.

Rhuallt—	January 15...	43200
	February 11	43200
	March 13	43200
	April 19	43200
	May 22	43200
	June 20	43200
	July 19	28800
	August 27	17280
	September 16	14400
	October 12	14400
	November 9	14400
	December 17	9600
Mynydd Bychan—	January 15	86400
	March 13	86400
	May 22	86400
	June 20	43200
	July 19	5760
	August 27	4800
	September 1	3456
	September 8	3200
	September 16	2979
	October 12	2880
	November 9	5082

I am, Gentlemen,

Your Obedient Servant,

EDW. O. EVANS, F.S.I.A., Cert. R.S.I.,

Sanitary Inspector and Surveyor.

RAINFALL IN 1937.

A record of rainfall in 1937, taken at "Yr Ardd," Denbigh, kindly supplied by the Mayor of Denbigh, Col. Gronwy R. Griffith,

Month.	Total. Depth. Inches.	Greatest fall in 24 hours. Inches.	Date.	Number of days with 01 in. or more.	Number of days with .04in. or more.
January	2.59	0.56	5	17	14
February	5.50	1.44	27	23	19
March	2.71	0.48	16	18	14
April	3.69	1.22	16	15	11
May	1.75	0.36	3	10	9
June	1.41	0.70	12	9	8
July	1.74	0.47	15	17	10
August	0.81	0.53	13	6	4
September	2.06	0.85	19	15	9
October	2.76	0.91	23	12	10
November	1.43	0.37	18	12	7
December	2.75	0.56	4	18	11
Total	29.20			172	126

At Mental Hospital Gardens, Denbigh, Rain gauge.—Diameter of funnel 5-inch; height of top above ground, 1-ft.; height of ground above sea level, 316 ft.

Month	Total. Depth. Inches.	Greatest fall in 24 hours. Inches.	Date.	Number of days with 01 in. or more	Number of days with .04in. or more.
January	2.75	0.51	5	20	15
February	5.23	0.91	27	22	20
March	2.85	0.52	16	18	18
April	3.41	1.06	16	14	13
May	1.88	0.38	3	11	10
June	1.56	0.74	12	11	7
July	1.86	0.50	15	15	11
August	0.97	0.63	13	7	5
September	1.93	0.65	19	14	10
October	2.92	0.85	23	13	12
November	1.44	0.40	18	11	9
December	3.17	0.52	4	20	15
Total	29.97			176	145

WM. BARKER.

RHYL'S RAINFALL—10 Years' Average.

The average Rainfall for 10 years in Inches is as follows:—

1928 ... 27.48	1929 ... 26.23	1930 ... 32.62
1931 ... 27.85	1932 ... 26.79	1933 ... 18.10
1934 ... 21.48	1935 ... 27.43	1936 ... 30.42
	1937 ... 25.51	

Total average for 10 years, 26.39 inches.